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(54) Title: METHOD FOR SYNTHESIZING PEPTIDES

(57) Abstract: The present invention relates to a novel method for synthesizing peptides in solution, the method comprising: a) treating a peptide or amino acid derivative, which has an  $\alpha$ -amine function blocked with a urethane group of the formula  $R^1-SO_2-CH_2CH_2-O-CO-$ , wherein  $R^1$  is aryl, with an excess of an aliphatic secondary amine in an organic solvent to provide the release of the free  $\alpha$ -amine function of said amino acid or peptide derivative and the formation of a tertiary amine adduct between said secondary amine and the liberated vinyl compound of the formula  $R^1-SO_2-CH_2=CH_2$ ; b) removing the solvent and the excess of said secondary amine; c) contacting thus formed mixture of the  $N_\alpha$ -deprotected amino acid or peptide derivative and said tertiary amine adduct with subsequent peptide or amino acid derivative  $N_\alpha$ -protected with the above indicated or another urethane group under conditions providing the formation of a peptide bond between the free  $\alpha$ -amine function of the  $N_\alpha$ -deprotected amino acid or peptide derivative and an  $\alpha$ -carboxylic function of the subsequent  $N_\alpha$ -protected peptide or amino acid derivative; d) separating the newly formed peptide from the reaction mixture; e) repeating procedures as set forth above until the desired polypeptide is obtained.

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